

Form PTO-1449  
(REV. 8-83)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket:  
2002630-0002

In re Application No.  
09/448,256

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicant: Liu, et al.

Filing Date:  
November 24, 1999

Group:  
1636

U.S. PTO  
09/928463

08/13/01

**U.S. PATENT DOCUMENTS**

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass

**U.S. PATENT APPLICATIONS**

Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
	WO 92/05265	PCT	2 April 1992		

**OTHER DOCUMENTS**

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
gr	Montgomery et al., "RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in <i>Caenorhabditis Elegans</i> " <i>Proceedings of the National Academy of Sciences of USA</i> , 95: 15502-15507, 1998.
02	Vermehren, et al., "Using RNA Interference to Study the Subunit Composition of Nicotinic Receptors in <i>Manduca Sexta</i> ", Society for Neuroscience Abstracts, 26(1-2): 0190-5295, 2000.

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ATTY. DOK  
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**SUPPLEMENTAL INFORMATION DISCLOSURE  
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**U.S. PATENT DOCUMENTS**

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
<i>PC</i>	5,077,214	Guarino et al.	December 31, 1991	435	240.2
<i>PC</i>	5,162,222	Guarino et al.	November 10, 1992	435	240.2
<i>PC</i>	5,169,784	Summers et al.	December 8, 1992	435	320.1
<i>PC</i>	5,674,485	Hammock et al.	October 7, 1997	424	93.2
<i>PC</i>	5,770,192	Cayley et al.	June 23, 1998	424	93.2
<i>PC</i>	5,756,340	Hammock et al.	May 26, 1998	435	435
<i>PC</i>	5,759,809	Iatrou	June 2, 1998	435	69.1
<i>PC</i>	5,795,715	Livache et al.	August 18, 1998	435	6
<i>PC</i>	5,858,353	Miller et al.	January 12, 1999	424	93.6
<i>PC</i>	5,885,569	Windass	March 23, 1999	924	93.2
<i>PC</i>	5,925,346	Krause et al.	July 20, 1999	424	93.2
<i>PC</i>	5,959,182	Atkinson, et al.	September 28, 1999	800	302
<i>PC</i>	5,985,269	Hammock et al.	November 16, 1999	424	93.6
<i>PC</i>	5,989,541	Iatrou	November 23, 1999	424	93.2
<i>PC</i>	6,087,165	Raina et al.	July 11, 2000	435	320.1
<i>PC</i>	6,096,304	McCutchen	August 1, 2000	424	93.2

**U.S. PATENT APPLICATIONS**

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**FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
<i>PC</i>	WO 99/32619	International — <i>PC</i>	01 July 1999		

**OTHER DOCUMENTS**

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Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
	<del>Black, et al., "Commercialization of Baculoviral Insecticides", 341-387.</del>
<i>IL</i>	Brown, et al., "Using RNAi to Investigate Orthologous Homeotic Gene Function During Development of Distantly Related Insects", <i>Evolution &amp; Development</i> , 1(1): 11-15, 1999.
<i>IL</i>	Chouinard, et al., "A Potassium Channel Subunit Related to the Aldo-Keto Reductase Superfamily is Encoded by the Drosophila Hyperkinetic Locus", <i>Proc. Natl. Acad. Sci. USA</i> , 92: 6763-67, 1995.
<i>IL</i>	Davies, et al., "Analysis and Inactivation of vha55, The Gene Encoding the Vacuolar ATPase B-Subunit in Drosophila Melanogaster Reveals a Larval Lethal Phenotype", <i>The Journal of Biological Chemistry</i> , 271(48): 30677-30684, 1996.
<i>IL</i>	Dow, et al., "Molecular Genetic Analysis of V-ATPase Function in Drosophila Melanogaster", <i>The Journal of Experimental Biology</i> , 200: 237-45, 1997.
<i>IL</i>	Dow, et al., "The Multifunctional Drosophila Melanogaster - V-ATPase Is Encoded by a Multigene Family", <i>Journal of Bioenergetics and Biomembranes</i> , 31(1): 75-83, 1999
<i>IL</i>	Fire, et al., "Potent and Specific Genetic Interference by Double-Stranded RNA in Caenorhabditis Elegans", <i>Nature</i> , 391: 806-11, 1998.
<i>IL</i>	Fire, et al., "Potent and Specific Genetic Interference by Double-Stranded RNA in Caenorhabditis Elegans", <i>Nature</i> , 391: 806-11, 1998.
<i>IL</i>	Fire, "RNA-Triggered Gene Silencing", <i>TIG</i> , 15(9): 358-63, 1999.
<i>IL</i>	Hajós, et al., "Dissecting Insect Development: Baculovirus-Mediated Gene Silencing in Insects", <i>Insect Molecular Biology</i> , 8(4): 539-44, 1999.
<i>IL</i>	Hughes, et al., "RNAi Analysis of Deformed, Proboscipedia and Sex Combs Reduced in the Milkweed Bug Oncopeltus Fasciatus: Novel Roles for Hox Genes in the Hemipteran Head", <i>Development</i> , 127: , 3683-94, 2000.
<i>IL</i>	Johnson, et al., "Inhibition of Luciferase Expression in Transgenic Aedes Aegypti Mosquitoes by Sindbis Virus Expression of Antisense Luciferase RNA", <i>PNAS</i> , 96(23): 13399-13403, 1999.
<i>IL</i>	Kennerdell, et al., "Heritable Gene Silencing in Drosophila Using Double-Stranded RNA", <i>Nature Biotechnology</i> , 18: 896-98, 2000.
<i>IL</i>	Kennerdell, et al., "Use of dsRNA-Mediated Genetic Interference to Demonstrate that Frizzled and Frizzled 2 Act in the Wingless Pathway", <i>Cell</i> , 95: 1017-26, 1998.
	<del>Kooter, et al., "Listening to the Silent Genes: Transgene Silencing, Gene Regulation and Pathogen Control"</del>
<i>IL</i>	Lewis, et al., "Distinct Roles of the Homeotic Genes Ubx and abd-A in Beetle Embryonic Abdominal Appendage Development", <i>PNAS</i> , 97(9): 4504-09.
<i>IL</i>	Marie, et al., "Double-Stranded RNA Interference Shows that Engrailed Controls the

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE          STATEMENT</b>  <i>(Use several sheets if necessary)</i>				APPLICANT: LIU, ET AL.	
				FILING DATE: NOVEMBER 24, 1999	GROUP: 1636
<i>2</i>	Synaptic Specificity of Identified Sensory Neurons", <i>Current Biology</i> , <b>10</b> : 289-92: 2000.				
<i>21</i>	Misquitta, et al., "Targeted Disruption of Gene Function in Drosophila byRNA Interference (RNA- I): A Role for Nautilus in Embryonic Somatic Muscle Formation", <i>Proc. Natl. Acad. Sci.</i> <b>96</b> : 1451-56, 1999.				
<i>2</i>	Montgomery, et al., "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression", <i>TIG</i> , <b>14(7)</b> : 255-58, 1998.				
<i>2</i>	Oppenheimer, et al., "Functional Conservation of the Wingless-Engrailed Interactions as Shown by a Widely Applicable Baculovirus Misexpression System", <i>Current Biology</i> , <b>9</b> : 1288-96, 1999.				
<i>2</i>	Roelvink, et al., "Dissimilar Expression of Autographa California Multiple Nucleocapsid Nuclear Polyhedrosis Virus Polyhedrin and p10 Genes", <i>Journal of General Virology</i> , <b>73</b> : 1481-89, 1992.				
<i>2</i>	Ruiz, et al., "Initiation and Maintenance of Virus-Induced Gene Silencing", <i>The Plant Cell</i> , <b>10</b> : 937-46, 1998.				
<i>2</i>	Timmons, et al., "Specific Interference by Ingested dsRNA", <i>Nature</i> , <b>395</b> : 854, 1998.				
<i>2</i>	Wieczorek, et al., "The Plasma Membrane H <sup>+</sup> - V-ATPase from Tobacco Hornworm Midgut", <i>Journal of Bioenergetics and Biomembranes</i> , <b>31(1)</b> : 67-74, 1999.				
<i>2</i>	Wood, et al., "Genetically Engineered Baculoviruses as Agents for Pest Control", <i>Annu. Rev. Microbiol.</i> <b>45</b> : 69-87, 1999				
EXAMINER <i>David Sugar</i>				DATE CONSIDERED <i>12/5/02</i>	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					